

Work Order ID 147756

147756

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Monday, June 13, 2016 10:38:22 AM

Item ID: 646.4002 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: AS350 Wiper Deflector
 Start Date: 6/13/2016 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 6/17/2016 Req'd Qty: 1.00 ***1*** Customer:

Reference:

Approvals: Process Plan: Date: Tooling: Date: Run Start ***NR1***
 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	C1								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4002								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

MCS 1606-17

DAS
6
9-89

JUN 16 2016

DAS
27
9-89

JUN 23 2016

JUN 20 2016

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

JUN 23 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 147756***147756***

Page 2

Monday, June 13, 2016 10:38:22 AM

Item ID: 646.4002 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: AS350 Wiper Deflector
Start Date: 6/13/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 6/17/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4002 Location : FG102								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

DAS 27 9-89
DAS 28 9-89
JUN 23 2016
JUN 23 2016
MLJ
MLJ

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Monday, June 13, 2016 10:38:20 AM

Page 1

Work Order ID: 147756

147756

Parent Item: 646.4002

646 4002

Parent Item Name: AS350 Wiper Deflector

Start Date: 6/13/2016

Required Date: 6/17/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.12.23 NEW ISSUE DD VERF:JLM
16.01.07 DWG REV.C DD VERF:JLM

IPP REV:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3410 *646 3410* LH Wiper Deflector DAS 27 9-89		Manufactured	No				Each	30.0000		1		DAS 6 9-89	DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				cck010			30						
				125083			15						
				97822			15						
646.3411 *646 3411* RH Wiper Deflector DAS 27 9-89		Manufactured	No				Each	28.0000		1		DAS 6 9-89	DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				cck010			28						
				125083			10						
				97823			18						
NAS1149F0332P *NAS1149F0332P* Washer DAS 27 9-89		Purchased	No				Each	1,748.000		16		DAS 6 9-89	DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				GA			312						
				m133709			312						
				ST262			1436						
				m134257			37						
				m134676			1399						

JUN 20 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

Monday, June 13, 2016 10:38:21 AM

Work Order ID: 147756

147756

Parent Item: 646.4002

646 4002

Parent Item Name: AS350 Wiper Deflector

Start Date: 6/13/2016

Required Date: 6/17/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

Each

1,768.000

6

MS21042L3

Nut

DAS 28
DAS 6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

44

m133790

44

GA

269

m133790

3

m134360

266

OVER007

600

m134754

600

ST303

855

m134039

12

m134634

43

m134943

800

MS27039-1-19

Purchased

No

Each

132.0000

2

MS27039-1-19

Screw

DAS
27
9-89

DAS 28
DAS 6
9-89

Location

Loc Qty

Loc Code

GA

132

m134134

132

MS27039-1-18

Purchased

No

Each

1,805.000

2

MS27039-1-18

Screw

DAS
27
9-89

DAS 28
DAS 6
9-89

Location

Loc Qty

Loc Code

GA

251

123522

55

124326

196

over006

1373

124326

1373

ST280

181

124326

181

JUN 20 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
QC / QA Coordinator Approval									

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	Pressure/Forced ☐		Temperature/Cure ☐		Power Loss/Surge ☐	
Design ☐	☐ Operator	Bending ☐		Set-up ☐		Folio/Program ☐	
Doc/Data ☐	☐ Offset/Setup	Centre Not Concentric ☐		BOM/Route ☐		Grain ☐	
Equip/Tooling ☐	☐ Supplier	Cracks ☐		Broken/Damage/Defect ☐		Weld ☐	
Handling/Pre ☐	☐ Training	Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐		Wrong Stock Pulled ☐	
Material ☐	☐ Use for Testing	Cuffs ☐		Contamination ☐		Out of Sequence ☐	
Internal Transport ☐	☐ Poor Information	Crushing ☐		Countersink ☐		Off-set ☐	
Tribal Knowledge ☐	☐ Rushing	Heat Treat ☐		Cut Too Short ☐		Mislabeled ☐	
LOA ☐	☐ Product Improvement	Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐		Fit/Function ☐	
Substation ☐	☐ Process Improvement	Marks/Chatter ☐		Drill Holes ☐		Misaligned/off center ☐	
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause				FAULT CATEGORY					
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER :									

Work Order ID 147756

147756

Page 1

Mondy, June 13, 2016 10:38:22 AM

Item ID: 646.4002

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: AS350 Wiper Deflector

Start Date: 6/13/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 6/17/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Run Start

NR1

Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop

NR2

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

646.4000

C1

100

Document Control

0.00

DAC

6

9-69

JUN 16 2016

MCS JUN 17 2016

100

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 646.4002

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

REFERENCE ONLY

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

NOTES:

- AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

- 2 INSTALL F/N 14 WITH F/N 52 & 53.

- A  3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651.

4. 3M TAPE PRIMER 94. APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

- REUSE FASTENERS FROM F/N 1

- △ USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7. AT CUSTOMERS OPTION, INSTALL F/N 85 BY MATCH DRILLING ON TO F/N 1.

- 8** INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

- B  NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(s)

05304

5	5	5	78	601.3875	SCREW	AS27039-0B1.5			
1	1	1	77	646.9410	SHIM	AS1149FNB23P			
	4	4	76	601.2764	WASHER	AS27042-05			
	2	2	75	601.2973	LOCKNUT	AS27039-0B1.5			
	2	2	74	601.2988	SCREW	AS27042-3			
	2	2	73	601.2943	LOCKNUT	AN316C4R			
	2	2	72	601.3128	NUT	AS27042.4			
	2	2	71	601.3209	LOCKNUT	AS1149T0432P			
	4	4	70	601.2638	WASHER	AN4C7A			
	2	2	69	601.2669	BOLT	AN36A5-34R			
	2	2	68	601.3119	CLEVIS	AN4A-5A			
	2	2	67	601.3121	EYE BOLT	650.9201			
		2	66	650.9201	EYE BRACKET ASSY	647.5701			
REF	REF	REF	65	647.5701	GPS MOUNT KIT	601.3151			
		2	64	601.3151	WASHER	AS27039-0B1.5			
		-2-	63	601.2911	SCREW	AS27039-1-16			
	24	24	62	601.2637	SCREW	AN3-12A			
2	2	2	61	601.2763	BOLT				
	1	1	60	646.3913	SHIM				
	4	4	59	646.3912	SHIM				
	1	1	58	646.3911	SHIM				
	4	4	57	646.3910	SHIM				
	5	5	56	600.1013	PRIMER				
	8 FT	8 FT	55	600.0129	YHB TAPE				
	1	1	54	600.1012	SEALANT	PG-1425 CLAS B			
	1	1	53	600.0991	MAGNABOND 6398 PART B				
	1	1	52	600.0990	MAGNABOND 6398 PART A				
6	10	10	51	601.2826	BOLT	AN3-11A			
		-2-	50	646.3814	WIPER BRACKET				
		C2	49	601.2910	SCREW	AS27039-1-16			
2		2	48	601.1365	SCREW	AS27039-1-10			
	2	2	47	646.3719	DOUBLER				
	2	2	46	646.3718	CUSTOM WASHER				
1		1	45	646.3717	DOUBLER				
	22	C2	44	601.1948	SCREW	AS27039-1-15			
	2	2	43	601.1952	SCREW	AS27039-1-20			
	4	4	42	601.1956	SCREW	AS27039-1-21			
4006	4005	4004	4003	4002	FIND #	PART #	DESCRIPTION	MATL	SPEC.

										REVIEWS			
										REV.	DESCRIPTION	DATE	APPROVED
										A	INCORPORATED (CNS) 02719, 02811, 02719 & 02745	02/06/2010	P. BRAVO
										B	INCORPORATED (CNS) 02846, 02879 & 04731	11/04/2014	P. BRAVO
										C	INCORPORATED (CNS) 02811	06/09/2015	P. BRAVO

				2		2	41	601.2829	SCREW	MS24694554		
				2		2	40	601.2831	RIVET	MS20476AD5-7		
				1		1	39	646.3716	GAUGE BRACKET			
				6		6	38	601.1953	SCREW	MS27039-1-12		
				2		2	37	646.3715	STRUT DOUBLER			
		2		2		2	36	601.2824	BOLT	AN3-5A		
12		36				36	35	601.2277	RIVET	DC304455-02		
6		18				18	34	600.0795	NUT/PLATE	MS27047-5		
3		3				3	33	601.2565	RIVET	MS20470AC5-7		
1		1				1	32	646.3813	STRUT BRACKET			
4		4				4	31	601.2822	BOLT	AN3-3A		
2		2				2	30	646.3812	GUSSET BRACKET			
8		8				8	29	601.2564	RIVET	MS20470AD5-6		
1		1				1	28	646.3714	GUSSET			
		1		1		1	27	646.3610	FILLER			
		3		3		3	26	601.2830	SCREW	MS24694555		
		2		2		2	25	601.2825	BOLT	AN3-6A		
		1		1		1	24	646.3811	RADIUS BLOCK			
		1		1		1	23	646.3712	CLIP			
		1		1		1	22	646.3711	CLIP			
8		8				8	21	601.2832	RIVET	MS20470AD5-5		
14		14				14	20	601.2020	RIVET	CR321-3-5-3		
4		4		4		4	19	601.2823	BOLT	AN3-4A		
		1		1		1	18	601.2827	BOLT	AN3-13A		
		5		5		5	17	601.2912	SCREW	MS24694551		
1		1		1		1	16	646.3713	GUSSET			
1		1		1		1	15	646.3210	SUPPORT			
		1		1		1	14	646.3710	DOUBLER			
		1		1		1	13	646.3110	CHANNEL			
14		10		8		53	12	601.1624	LOCKNUT	MS20470L3		
16		32		18		120	11	601.1607	WASHER	MS1149103-2229		
							10	646.3410	LH WIPER DEFLECTOR			
							9	646.3411	RH WIPER DEFLECTOR			
				2		2	8	547.7703	STRUT ASSY			
				2		2	7	647.0112	STRUT BRACKET			
				1		1	6	646.3511	STRUT			
				1		1	5	646.3510	STRUT			
2				2		2	4	646.3810	BRACKET			
				1		1	3	646.2910	DEFLECTOR			
				1		1	2	646.3001	LOWER CUTTER ASSY			
				1		1	1	646.3301	UPPER CUTTER ASSY			
X								646.4006	LOWER CUTTER FIXED PROVISIONS KIT			
				X				646.4005	LOWER CUTTER REMOVABLE PROVISIONS KIT			
				X				646.4004	FIXED PROVISIONS KIT			
				X				646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS			
						X		646.4002	ASS350 WIPER DEFLECTOR KIT			
						X		646.4001	ASS350 CABLE CUTTERS KIT			
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.		

QTY		PARTS LIST	
NEXT ASSY (S)		ORIG. DATE INCORP. DATE 08-22-08 DRAWN BY CHECKED P. BRAVO DRAWING APPROVAL P. BRAVO CONTRACT NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .0010 3 PLACE DECIMALS .0005 ANGLES 1°	
		REV. 101 B	
		SCALE CODE: DWG. NO. B 07/016	
		SCALE NONE	
		SHEET 1 OF 5	

ASS350 CABLE CUTTERS KIT

3030 ENTERPRISE CT., SUITE A
VISTA, CA. 92081
(760)-724-5300

DART

AEROSPACE

APICAL INDUSTRIES, INC.
4850 DART DRIVE